BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer
Dasarahalli Division

Workslip,EIRL And Other Details

Name of Work:- Improvemnets To Roads At 1st,2nd,3rd,4th Cross,1st Main Road Kalyana Nagara, 15th C Cross Prashanth Nagara And Surrounding Area In Ward No 13 Shettyhalli Sub-Division

Est Cost:45.00 Lakhs

Job Code: 013-20-000130

Name of The Contractor: Sri. R Shivaram

FORM P W G-43

BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI DIVISION

Comparative Statement

Name of work: Improvemnets To Roads At 1st,2nd,3rd,4th Cross,1st Main Road Kalyana Nagara, 15th C Cross Prashanth Nagara And Surrounding Area In Ward No 13 Shettyhalli Sub-Division

Estimate Cost: 45.00 Lakhs

Job Code: 013-20-000130

Tender Amount:36,00,515.00

Work Order No: EE/DD/W.O/145/2020-21

Name of the Contractor: Sri. R Shivaram

Sl. No	Description of work	Unit	Qty. as per Sanctioned Estimate			Qty. as per Tender			Actual Executed Qty	Qty. as per Actuals Upto 125%			Qty. as per Actuals Above 125%			Total Executed Amount	Savings	Excess	Remarks
			Qty	Rate	Amount	Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate 2018-19 SR	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3.	Cum	509.80	137.80	70250.44	509.80	129.12	65825.38	550.26	550.26	129.12	71049.57	0.00	0.00	0.00	71049.57	-	5224.20	
2	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications.	Cum	64.32	5509.33	354359.89	64.32	5162.24	332035.28	69.66	69.66	5162.24	359601.64	0.00	0.00	0.00	359601.64	-	27566.36	
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo-Wall & bottom thickness 15cm	Cum	75.15	7189.42	540284.78	75.15	6736.49	506247.22	85.45	85.45	6736.49	575633.07	0.00	0.00	0.00	575633.07	-	69385.85	
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3- TMT Bars Fe 500	Tonne	4.88	72326.98	352955.66	4.88	67770.38	330719.45	4.20	4.20	67770.38	284635.60	0.00	0.00	0.00	284635.60	46083.86	-	

Sl. No	Description of work	Unit	Qty. as per Sanctioned Estimate			Qty. as per Tender			Actual Executed Qty	Qty. as per Actuals Upto [illegible]			Qty	Rate 2018-19 SR	Amount	Total Executed Amount	Savings	Excess	Remarks
			Qty	Rate	Amount	Qty	Rate	Amount		Qty	Rate	Amount							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
5	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges.(Data Rate)	Sqm	144.00	1615.00	232560.00	144.00	1513.26	217909.44	305.10	180.00	1513.26	272386.80	125.10	1513.41	189327.59	461714.39	-	243804.95	
6	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	29.52	4891.63	144400.91	29.52	4583.46	135303.74	31.11	31.11	4583.46	142591.44	0.00	0.00	0.00	142591.44	-	7287.70	
7	Providing ruled pointing to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. – do – cement mortar 1:3 (P.No-255.1 No-27.34.13.1 PWD 2018-19)	Sqm	65.60	154.57	10140.02	65.60	144.83	9500.85	55.20	55.20	144.83	7994.62	0.00	0.00	0.00	7994.62	1506.23	-	
8	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3	Sqm	1022.40	95.40	97536.96	1022.40	89.39	91392.34	797.40	797.40	89.39	71279.59	0.00	0.00	0.00	71279.59	20112.75	-	
9	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202	Cum	43.20	952.94	41167.01	43.20	892.90	38573.28	31.35	31.35	892.90	27992.42	0.00	0.00	0.00	27992.42	10580.87	-	
10	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3	Sqm	1310.40	6.36	8334.14	1310.40	5.96	7809.98	1006.40	1006.40	5.96	5998.14	0.00	0.00	0.00	5998.14	1811.84	-	

Sl. No	Description of work	Unit	Qty. as per Sanctioned Estimate			Qty. as per Tender			Actual Executed Qty	Qty. as per Actuals upto 12.5%			Qty. as per Actuals above 12.5%			Total Executed Amount	Savings	Excess	Remarks
			Qty	Rate	Amount	Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate 2018-19 SR	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
11	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications. MORTH Specification No. 406.	Cum	298.80	2001.28	597982.46	298.80	1875.20	560309.76	230.70	230.70	1875.20	432608.64	0.00	0.00	0.00	432608.64	127701.12	-	
12	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of	Cum	43.20	5354.02	231293.74	43.20	5016.72	216722.30	31.35	31.35	5016.72	157274.17	0.00	0.00	0.00	157274.17	59448.13	-	
13	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.	Sqm	288.00	72.08	20759.04	288.00	67.54	19451.52	209.00	209.00	67.54	14115.86	0.00	0.00	0.00	14115.86	5335.66	-	
14	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg l sqm using mechanical means complete as per specifications.MORTH	Sqm	1022.40	28.62	29261.09	1022.40	26.82	27420.77	797.40	797.40	26.82	21386.27	0.00	0.00	0.00	21386.27	6034.50	-	
15	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen	Cum	48.42	6597.44	319448.04	48.42	6181.80	299322.76	51.98	51.98	6181.80	321329.96	0.00	0.00	0.00	321329.96	-	22007.21	

Sl. No	Description of work	Unit	Qty. as per Sanctioned Estimate			Qty. as per Tender			Actual Executed Qty	Qty. as per Actuals Upto 125%			Qty. as per Actuals Above 125%			Total Executed Amount	Savings	Excess	Remarks
			Qty	Rate	Amount	Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate 2018 19 SR	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501	Sqm	2192.00	5.30	11617.60	2192.00	4.97	10894.24	1639.30	1639.30	4.97	8147.32	0.00	0.00	0.00	8147.32	2746.92	-	
17	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH	Sqm	2192.00	12.72	27882.24	2192.00	11.92	26128.64	1639.30	1639.30	11.92	19540.46	0.00	0.00	0.00	19540.46	6588.18	-	
18	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. Clause 507 of MORTH V Version as per IRC SP-53-2015,do-Using 40-60 TPH Capacity HMP With Mechanical Paver Grading II (30-45mm) with 5.4% of Modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (Waste Plastic)	Cum	90.32	7753.90	700332.25	90.32	7265.40	656210.93	65.58	65.58	7265.40	476464.93	0.00	0.00	0.00	476464.93	179746.00	-	
19	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1	Cum	629.68	57.00	35891.76	629.68	53.41	33631.21	629.46	629.46	53.41	33619.46	0.00	0.00	0.00	33619.46	11.75	-	
20	KSRRB M100-4.1. Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road	t.km	629.68	25.60	16119.81	629.68	23.99	15106.02	629.46	629.46	23.99	15100.75	0.00	0.00	0.00	15100.75	5.28	-	
	Sub Total A				**3842577.85**			**3600515.00**				**3318750.69**			**189327.59**	**3508078.29**	**467713.08**	**375276.26**	
E-1	KSRRB M200-12.3. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of	Cum	-	-	-	-	-	-	22.50	-	-	-	22.50	1578.40	35514.00	35514.00	-	35514.00	

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			Qty	Rate	Amount	Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate 2019-19 SR	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
E-2	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to 18910: 1999 Reaffirmed-2008,Open Foundation	Sqm	-	-	-	-	-	-	4.32	-	-	-	4.32	5077.21	21933.55	21933.55	-	21933.55	
E-3	KSRRB M800-15 Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at	Sqm	-	-	-	-	-	-	68.20	-	-	-	68.20	426.14	29062.75	29062.75	-	29062.75	
	Sub Total B				0.00			0.00				0.00			86510.30	86510.30	0.00	86510.30	
	Total Construction Cost (A+B)				3842921.00			3600515.00				3318751.00			275838.00	3594590.00	467714.00	461787.00	
	GST Charges 12%				461150.52														
	Tender Premium 5%				192146.05														
	Sub Total				4496217.57														
	Miscellaneous and rounding off				3782.43														
	Total				4500000.00			3600515.00				3318751.00			275838.00	3594590.00	467714.00	461787.00	

0.16% Below

Summary

1 **Estimated Cost: Rs. 45.00 Lakhs**
2 **Tender Cost: Rs. 36,00,515.00**
3 **Work Slip Amount Rs.3,75,277.00= 10.42% Of the Tender Amount**
4 **EIRL Amount Rs.86,511.00 = 2.40% Of the Tender Amount**
5 **During execution as per requirement and site Condition, the total Qty to be executed costs Rs.35.94 Lakhs Which is 0.16% Below the Tender Amount Cost. The Proposal May Kindly be Approved**

Assistant Engineer
Ward No.13
BBMP

Assistant Executive Engineer
Shettyhalli Sub Division
BBMP

Executive Engineer
Dasarahalli Division
BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI DIVISION

WORK SLIP

Name of work: Improvemnets To Roads At 1st,2nd,3rd,4th Cross,1st Main Road Kalyana Nagara, 15th C Cross Prashanth Nagara And Surrounding Area In Ward No 13 Shettyhalli Sub-Division

Estimate Cost: 45.00 Lakhs

Job Code: 013-20-000130

Tender Amount:36,00,515.00

Work Order No: EE/DD/W.O/145/2020-21

Name of the Contractor: Sri. R Shivaram

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invovvng , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3	Cum	509.80	137.80	70250.44	509.80	129.12	65825.38	550.26	550.26	129.12	71049.57	0.00	0.00	0.00	71049.57	-	5224.20	
2	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications	Cum	64.32	5509.33	354359.89	64.32	5162.24	332035.28	69.66	69.66	5162.24	359601.64	0.00	0.00	0.00	359601.64	-	27566.36	
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm	Cum	75.15	7189.42	540284.78	75.15	6736.49	506247.22	85.45	85.45	6736.49	575633.07	0.00	0.00	0.00	575633.07	-	69385.85	
4	KSRB 4.9.2 Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications Specification No KBS 4.6.3-TMT Bars Fe 500	tonne	4.88	72326.98	352955.66	4.88	67770.38	330719.45	4.20	4.20	67770.38	284635.60	0.00	0.00	0.00	284635.60	46083.86	-	

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			Qty	Rate	Amount	Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate 2018-19 SR	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
5	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges.(Data Rate)	Sqm	144.00	1615.00	232560.00	144.00	1513.26	217909.44	305.10	180.00	1513.26	272386.80	125.10	1513.41	189327.59	461714.39	-	243804.95	
6	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	29.52	4891.63	144400.91	29.52	4583.46	135303.74	31.11	31.11	4583.46	142591.44	0.00	0.00	0.00	142591.44	-	7287.70	
7	Providing ruled pointing to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications – do – cement mortar 1:3 (P.No-255,1 No-27.34.13.1 PWD 2018-19)	Sqm	65.60	154.57	10140.02	65.60	144.83	9500.85	55.20	55.20	144.83	7994.62	0.00	0.00	0.00	7994.62	1506.23	-	
8	KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet/ surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3	Sqm	1022.40	95.40	97536.96	1022.40	89.39	91392.34	797.40	797.40	89.39	71279.59	0.00	0.00	0.00	71279.59	20112.75	-	
9	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202	Cum	43.20	952.94	41167.01	43.20	892.90	38573.28	31.35	31.35	892.90	27992.42	0.00	0.00	0.00	27992.42	10580.87	-	
10	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3	Sqm	1310.40	6.36	8334.14	1310.40	5.96	7809.98	1006.40	1006.40	5.96	5998.14	0.00	0.00	0.00	5998.14	1811.84	-	
11	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications. MORTH Specification No. 406	Cum	298.80	2001.28	597982.46	298.80	1875.20	560309.76	230.70	230.70	1875.20	432608.64	0.00	0.00	0.00	432608.64	127701.12	-	

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			Qty	Rate	Amount	Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate 2018-19 SR	Amount				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
12	Cement concrete pavement Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation	Cum	43.20	5354.02	231293.74	43.20	5016.72	216722.30	31.35	31.35	5016.72	157274.17	0.00	0.00	0.00	157274.17	59448.13	-	
13	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift	Sqm	288.00	72.08	20759.04	288.00	67.54	19451.52	209.00	209.00	67.54	14115.86	0.00	0.00	0.00	14115.86	5335.66	-	
14	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg/ 1 sqm using mechanical means complete as per specifications MORTH	Sqm	1022.40	28.62	29261.09	1022.40	26.82	27420.77	797.40	797.40	26.82	21386.27	0.00	0.00	0.00	21386.27	6034.50	-	
15	KSRRB M500-17 Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen	Cum	48.42	6597.44	319448.04	48.42	6181.80	299322.76	51.98	51.98	6181.80	321329.96	0.00	0.00	0.00	321329.96	-	22007.21	
16	KSRRB 500-2 Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications MORTH specification clause 501	Sqm	2192.00	5.30	11617.60	2192.00	4.97	10894.24	1639.30	1639.30	4.97	8147.32	0.00	0.00	0.00	8147.32	2746.92	-	
17	KSRRB 500-7 Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications MORTH	Sqm	2192.00	12.72	27882.24	2192.00	11.92	26128.64	1639.30	1639.30	11.92	19540.46	0.00	0.00	0.00	19540.46	6588.18	-	

Sl. No	Description of work	Unit	Qty put to tender	Rate	Amount	Executed Qty	Rate	Amount	Total Executed Qty	Qty	Rate	Amount	Qty	Rate 2018-19 SR	Amount	Total Executed Amount	Savings	Excess	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
18	KSRRB M500-19 Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No 500 9 complete in all respects complete as per specifications. Clause 507 of MORTH V Version as per IRC SP-53-2015,do-Using 40-60 TPH Capacity HMP With Mechanical Paver Grading II (30-45mm) with 5.4% of Modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (Waste Plastic)	Cum	90.32	7753.90	700332.25	90.32	7265.40	656210.93	65.58	65.58	7265.40	476464.93	0.00	0.00	0.00	476464.93	179746.00	-	
19	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1	Cum	629.68	57.00	35891.76	629.68	53.41	33631.21	629.46	629.46	53.41	33619.46	0.00	0.00	0.00	33619.46	11.75	-	
20	KSRRB M100-4 1 Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-1 : Surface Road	t.km	629.68	25.60	16119.81	629.68	23.99	15106.02	629.46	629.46	23.99	15100.75	0.00	0.00	0.00	15100.75	5.28	-	
	Total Construction Cost (A+B)				**3842921.00**			**3600515.00**				**3318751.00**			**189328.00**	**3508079.00**	**467714.00**	**375277.00**	
	GST Charges 12%				**461150.52**														
	Tender Premium 5%				**192146.05**														
	Sub Total				**4496217.57**														
	Miscellaneous and rounding off				**3782.43**														
	Total				**4500000.00**			**3600515.00**				**3318751.00**			**189328.00**	**3508079.00**	**467714.00**	**375277.00**	

Percentage of Excess Comparing to Approved Tender Amount $\frac{375277.00}{3600515.00} \times 100$ **10.42%**

Assistant Engineer
Ward No.13
BBMP

Assistant Executive Engineer
Shettyhalli Sub division
BBMP

Executive Engineer
Dasarahalli Division
BBMP

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

BRUHAT BANAGLORE MAHANAGARA PALIKE

Rate Analysis as per PWD BR Circle

RATE ANALYSIS For Work Slip 2018-19

Sl. No	Particulars	Unit	SR 2018-19	Page No.	Item No.	Basic Rate	Sub Total Rate in RS.	Add TP 6.29%	Total Rate in Rs.
1	2	3	4	5	6	7	11		11
5	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges.(Data Rate)	Cum	Data Rate			1615.00	**1615.00**	101.58	**1513.41**

Assistant Engineer
Ward No.13

Assistant Executive Engineer
Shettyhalli Sub Division

Executive Engineer
Dasarahalli Division

ಮುಖ್ಯ ಲೆಕ್ಕಪರಿಶೋಧಕರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

Change of specification/alternative Items

Name of work: Improvemnets To Roads At 1st,2nd,3rd,4th Cross,1st Main Road Kalyana Nagara, 15th C Cross Prashanth Nagara And Surrounding Area In Ward No 12

Estimate Cost: 45.00 Lakhs

Job Code: 013-20-000130

Tender Amount:36,00,515.00

Work Order No: EE/DD/W.O/145/2020-21

Name of the Contractor: Sri. R Shivaram

Sl No.	Extra Item No.	Description	Unit	Qty	Rate	Amount (in Rs.)	Whether items are alternative to tender item or addittional.If items are in lieu of some tendered items mention such Items.	Whether extra item is includedd in the sanctioned estimate	How extra cost of the item is proposed to be meet	Whether the extra item is included in the S.R. if so reference to such to be given . If not data sheet is to accompany	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
1	E-1	KSRRB M200-12.3. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. C. Prestressed / Reinforced cement concrete grade M-20 & above. MORTH Specification No. 202 (Page No.139, Item No.18.19, KPWD SR 2018-19)	Cum	22.50	1578.40	35514.00	Additional	No	General Savings	SR : PWD SR 2018-19,I No-18.19, P No-139	
2	E-2	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to 189103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. (Data Rate)		4.32	5077.21	21933.55	Additional	No	General Savings	Data Rate	

Sl No.	Extra Item No.	Description	Unit	Qty	Rate	Amount (in Rs.)	alternative to tender item or additional.If items are in lieu of some tendered items mention such Items.	Whether extra item is includedd in the sanctioned estimate	How extra cost of the item is proposed to be meet	Whether the extra item is included in the S.R. if so reference to such to be given . If not data sheet is to accompany	Remarks
1	2	3	4	5	6	7	8	9	10	11	12
3	E-3	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface: Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC: 35. The finished surface to be level, uniform and free from streaks and holes complete with all lead and lift and as per direction of engineer incharge of work (Page No.182,Item No.24.15, KPWD 2018-19 SR)		68.20	426.14	29062.75	Additional	No	General Savings	SR : PWD SR 2018-19,I No-24.15, P No-182	
				Total		86511.00					

Percentage of Excess Comparing to Approved Tender Amount $\frac{86511.00}{3600515.00}$ x100 = 2.40%

Assistant Engineer
Ward No.13
BBMP

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Shettyhalli Sub Division
BBMP

Executive Engineer
Dasarahalli Division
BBMP

ಮುಖ್ಯ ಅಭಿಯಂತರರ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

Name of work: Improvemnets To Roads At 1st,2nd,3rd,4th **Cross,1st Main Road Kalyana** Nagara, 15th C Cross Prashanth Nagara And Surrounding Areas In Ward No

Shettyhalli **Sub-Division**

BRUHAT BANAGLORE MAHANAGARA PALIKE

Rate Analysis as per PWD BR Circle

RATE ANALYSIS For EIRL 2018-19

Sl. No	Particulars	Unit	SR 2018-19	Page No.	Item No.	Basic Rate	Area Weightage at 0%	Sub Total Rate in Rs	Add TP -6.29	Total Rate in Rs.
1	2	3	4	5	6	7	10	11	12	13
E-1	KSRRB M200-12.3. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. C. Prestressed / Reinforced cement concrete grade M-20 & above. MORTH Specification No. 202 (Page No.139, Item No.18.19, KPWD SR 2018-19)	Cum	PWD	139	18.19	1589.00	95.34	1684.34	105.84	1578.40
E-2	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirmning to 189103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. (Data Rate)	Sqm	PWD	Data Rate		5418.00	-	5418.00	340.79	5077.20
E-3	KSRRB M800-13 Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface: Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC: 35. The finished surface to be level, uniform and free from streaks and holes complete with all lead and lift and as per direction of engineer incharge of work (Page No.182,Item No.24.15, KPWD 2018-19 SR)	Sqm	PWD	182	24.15	429.00	25.74	454.74	28.60	426.34

Assistant Engineer
Ward No.13

Assistant Executive Engineer
Shettyhalli Sub division

Executive Engineer
Dasarahalli Division